

ABSTRACT

ENHANCEMENT OF HEMATOPOIETIC STEM CELL SURVIVAL

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A composition is disclosed that includes lin⁻ cells that are characterized as expressing CD31, CD34 and CD105, and not expressing c-kit, wherein the composition comprises fewer than 20% of lineage committed cells. Methods are disclosed for isolating CD31⁺CD34⁺CD45⁻CD105⁺c-kit⁻ cells. Methods for 10 reconstituting hematopoiesis using compositions including CD31⁺CD34⁺CD105⁺CD45⁻kit⁻ cells are also disclosed.